

Help learners **STEMify** their summer through hands-on and engaging activities curated by the NASA eClips team. You'll find something for everyone -- Earth-based and out-of-this world.



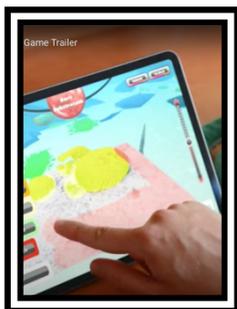
Engaging Activities

Elementary Grades

Middle School Grades

High School Grades

NEMO - NET



In this game, players help NASA classify coral reefs by painting 3D and 2D images of coral. Players can also rate the classifications of other players and level up in the food chain as they explore and classify coral reefs and other shallow marine environments and creatures from locations all over the world!

<http://nemonet.info/>



NASA's Eyes

Experience Earth and our solar system, the universe and the spacecraft exploring them, with immersive apps for Mac, PC and mobile devices.

<https://eyes.nasa.gov/>



NASA Space Explore Mars: A Mars

Rover Game



Become a planetary geologist and choose a Martian rock to investigate. Send a sequence of commands to guide a Rover to pick up that rock. And then, send information back to scientists on Earth.

<https://spaceplace.nasa.gov/explore-mars/en/>



Visit the [NASA eClips website](https://www.nasa.gov/eclips) and explore videos, activities and lessons to increase STEM literacy through the lens of NASA



Engaging Activities

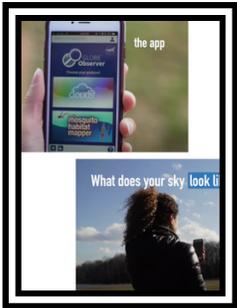
Climate Kids' Climate Time Machines

See into the past and ahead to the future with the Climate Time Machine! The visualization tool allows you to explore images of Earth and track changes over time.



<https://climatekids.nasa.gov/time-machine/>

GLOBE Cloud Observer App



Help NASA keep an eye on clouds using the GLOBE Observer App. When your observations are matched to satellite data, you are helping capture a complete view of the complexity of the atmosphere.

Help GLOBE reach One Million satellite matches!

<https://observer.globe.gov/do-globe-observer/clouds>

Story Time From Space



Astronauts on the International Space Station read stories and conduct science experiments for the children of Earth as the world rotates below.

Check to see if your favorite story was read in space?

<https://storytimefromspace.com/curiosity-the-story-of-a-mars-rover/>

Paper Cup Planetarium



Using paper drinking cups, our pre-made patterns, and a push-pin, you can make your very own constellations!

<https://www.calacademy.org/educators/lesson-plans/paper-cup-planetarium>

Elementary Grades
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Interact with NASA eClips on one of these platforms!





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NASA eClips at Home: Simple Machines



Join NASA interns Jacob, Sarah and Lenore, as they explore force, motion, energy, and simple and compound machines. Learn how NASA uses simple and compound machines and how to find (or create!) examples within your own home.

<https://vpm.org/articles/15146/nasa-eclipstm-at-home-simple-machines>



NASA Space Place's Art Challenge



Do you love making art and using your imagination? So do we! Every NASA mission starts with a creative idea about how to explore something in a new way.

Join this art challenge:

Young explorers think about and draw a space-related situation each month. And after the month is over, a few imaginative drawings will be featured on the NASA Space Place website!

<https://spaceplace.nasa.gov/art-challenge/en/>



Design A Crew Module



Design and build a spacecraft for your crew of mini-astronauts. The Orion spacecraft will carry astronauts to the Moon. You can design and build your version of this crew module. Add astronaut action figures and test the spacecraft to be sure your crew is safe.

<https://www.nasa.gov/stem-ed-resources/design-a-crew-module.html>



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Engaging Activities



NASA eClips Shower Clock

Engineering Design Challenge

Enjoy making a splash as you design, measure, build, test, and re-design a shower clock to conserve and recycle water.

<https://nasaclips.arc.nasa.gov/resources/download/60>

NASA eClips Cloud Cover Estimator



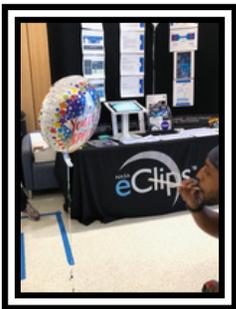
Engineering Design Challenge

Put your head in the clouds. Design, measure, build, test, and redesign a cloud cover estimator to measure the amount of cloud cover in the sky.

<https://nasaclips.arc.nasa.gov/resources/download/83>

NASA eClips Balloon Aerodynamics

Challenge 1 and 2



Have fun as you design, measure, build, test, and re-design a neutrally buoyant helium balloon. Then demonstrate how different forces affect motion and move balloons through a maze.

<https://nasaclips.arc.nasa.gov/resources/download/68>

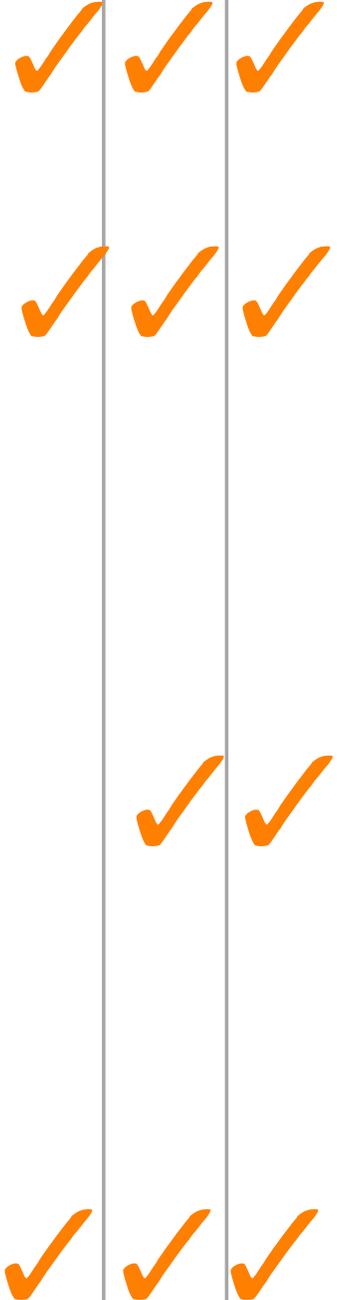
First Woman Graphic Novels & Interactive Experiences



First Woman tells the tale of Callie Rodriguez, the first woman to explore the Moon. While Callie is a fictional character, the first female astronaut and person of color will soon set foot on the Moon – a historic milestone and part of upcoming NASA missions.

<https://www.nasa.gov/specials/calliefirst/>

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Engaging Activities

or less

NASA Spotlite Video Design Challenge



Join the NASA Spotlite Production team!

Help increase people's understanding of science by producing a video to correct a science misconception. Demonstrate how to do a hands-on activity to collect evidence.

<https://nasaclips.arc.nasa.gov/resources/sdchallenge>



Camp Landsat



This virtual camp explores a new theme each week about how Landsat satellites help manage, protect, and preserve some of your favorite places on Earth. Your virtual camp counselors have curated an exciting collection of videos, interactives, and downloadable activities you can do at home or with friends of all ages.

<https://landsat.gsfc.nasa.gov/outreach/camp-landsat/>

Artemis Camp Experience



This set of hands-on activities tells the story of NASA's Artemis Program that will land the first woman and first person of color on the Moon.

<https://www.nasa.gov/stem-ed-resources/artemis-camp-experience.html>

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2022 Summer Events



Join NASA in celebrating this exciting event. Register to participate online in the Artemis 1 launch activities.

Participants will get:

- Updates about the latest launch schedule
- Invitations to attend virtual launch events
- Curated resources, including a STEM Learning Pathway

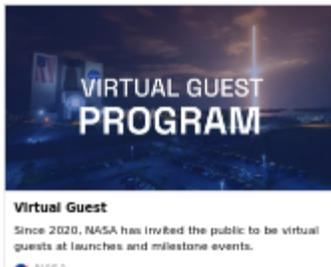
All resources, participation, and registration are FREE.

<https://www.eventbrite.com/e/artemis-i-registration-144043131885>

Fly your name around the Moon!



<https://www.nasa.gov/send-your-name-with-artemis/>



Upcoming Missions

Explore this link to learn more about upcoming NASA missions.

<https://www.nasa.gov/launchs/chedule/>

June

June 14: The full moon of June, known as the **Strawberry Moon**, arrives at 7:52 a.m. EDT (1152 GMT). It will also be the first "supermoon" of the year.

June 21: Solstice. Today marks the first day of summer in the Northern Hemisphere and the first day of winter in the Southern Hemisphere.

JUNE 21: National Selfie Day

JUNE 30: International Asteroid Day

NASA Selfies App

The NASA Selfies app lets you generate snapshots of yourself in a virtual spacesuit, posing in front of gorgeous cosmic locations. Just snap a photo of yourself, pick your background, and share on social media.

- Get the iOS app
- Get the Android app

July

July 4: Independence Day

July 13: The full moon of July, known as the **Buck Moon**, arrives at 2:38 p.m. EDT (1838 GMT). It will also be the biggest "supermoon" of the year.

July 20: National Moon Day, commemorates the day man first walked on the moon in 1969.

NASA Webb Community Events

<https://outerspace.stsci.edu/display/WSTCE/Official+Community+Events>

August

Aug. 1: A SpaceX Falcon Heavy rocket will launch NASA's Psyche mission to study the metal asteroid Psyche. It will lift off at 2:26 p.m. EDT (1826 GMT) from NASA's Kennedy Space Center in Florida.

Aug. 11: The full moon of August, known as the **Sturgeon Moon**, arrives at 9:36 p.m. EDT (0136 Aug. 12 GMT).

Aug. 11-12: The Perseid meteor shower peaks. **National Aviation Day FRIDAY, AUGUST 19**